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MINUTES.

Thirty-fourth Annual Meeting, Kansas Academy of Science, December 30 and 31, 1901, and January 1, 1902.

IOLA, KAN., December 30, 1901.

THE Kansas Academy of Science assembled in thirty-fourth annual meeting, at Iola, in the high-school auditorium, and was called to order at 7:30 o'clock P. M., by the president, Ephraim Miller.

The minutes of the adjourned session of January 25, 1901, held in Representative hall, Topeka, were read by the secretary and declared approved.

The following members were present at the opening session: Edward Bartow, F. F. Crevecœur, L. L. Dyche, Warren Knaus, D. E. Lantz, J. T. Lovewell, D. F. McFarland, J. R. Mead, Grace Meeker, Ephraim Miller, L. N. Morscher, L. E. Sayre, A. J. Smith, B. B. Smyth, M. L. Ward, J. T. Willard.

The president appointed the following committees:

On program: D. E. Lantz, Warren Knaus, and B. B. Smyth.

On membership: L. E. Sayre, J. T. Willard, and J. R. Mead.

Baxter McClain, Esq., of the city of Iola, welcomed the Academy to the city in a short address, and President Miller responded informally for the Academy.

The committee on membership recommended the following persons for membership in the Academy: Elmer P. Monahan, Baldwin; F. D. Barker, Ottawa; Miss Teresa Stevenson, Ottawa; A. O. Garrett, Fort Scott; Willis E. Henderson, Iola; Samuel L. Sargent, Wichita; Leon W. Hartman, Manhattan. Also, for reinstatement: Geo. H. Failyer, Manhattan; Chas. H. Sternberg, Lawrence.

On motion, the secretary was instructed to cast the ballot of the Academy for these persons, and they were duly declared elected members.

The committee on program reported, and the reading of papers was then taken up.

1. Wild animals I have known in Sedgwick county, by J. R. Mead.
2. The black squirrel in Kansas, by Elmer P. Monahan.
3. Notes on the trees, shrubs and vines in the southern part of the Cherokee Nation, by Chas. N. Gould. (Read by the secretary.)
4. The material *versus* the immaterial in medicine, by L. E. Sayre.

After announcements by President Miller, the Academy adjourned, to meet at nine A. M., December 31.

TUESDAY MORNING, December 31, 1901.

The Academy was called to order at 9:30 o'clock.

Minutes of the Monday evening session were read and approved.

President Miller appointed the following additional committees:

On nominations: J. T. Lovewell, Edw. Bartow, and A. J. Smith.

On necrology: Warren Knaus and B. B. Smyth.

On resolutions: M. L. Ward, L. L. Dyche, and J. R. Mead.

On place of meeting: J. T. Willard, G. H. Failyer, and Edw. Bartow.

Notice of an additional amendment to the constitution was given by Warren Knaus. The word "librarian" was to be stricken out of section 3.

The reading of papers was then continued:

5. Additions to the list of Kansas Coleoptera for 1901, by Warren Knaus.

6. Collecting Coleoptera in Utah and Wyoming, by Warren Knaus.

7. Additions to the list of the Hemipterous fauna of Kansas, by F. F. Crevecœur.

8. Remarks on habits of *Cynomys ludovicianus*, by D. E. Lantz.

9. On the still used for the purpose of obtaining distilled water for the University of Kansas, with some tests on the quality of the product, by E. H. S. Bailey. (Read by Edw. Bartow, in the absence of the author.)

10. Gold in Kansas shales, by J. T. Lovewell.

11. The nutritive value of buffalo-grass, by J. T. Willard.

12. On the use of a solution of alum as a standard acid in acidimetry, by H. P. Cady. (Read by title.)

13. Reactions between basic and acid amides in liquid ammonia, by E. C. Franklin and O. F. Stafford. (Read by title.)

14. Some pure sandstone waters, by E. H. S. Bailey. (Read by D. F. McFarland, in the absence of the author.)

On motion, the Academy adjourned, to meet at four P. M.

TUESDAY AFTERNOON, December 31, 1901.

At 1:15 o'clock, through the courtesy of the Iola Commercial Club, the members of the Academy enjoyed a trip to Gas City, Lanyonville, and La Harpe, on the new electric railway. Upon their return to Iola they were shown through the water-works and the large smelter of the Lanyon Zinc Company. Two trips were also conducted to the Iola Cement Works near the city.

The Academy was called to order at 4:30 o'clock.

The committee on membership recommended the following persons for active membership: Jesse B. Norton, Manhattan; Herbert F. Roberts, Manhattan; R. S. Sherwin, Norman, Okla. The committee also recommended for life membership the following persons, after

they comply with the conditions prescribed by the constitution; Geo. H. Failyer, Manhattan; L. L. Dyche, Lawrence; J. T. Willard, Manhattan; D. E. Lantz, Manhattan.

On motion, all the persons named were duly elected.

The reading of papers was then resumed:

15. Progress and possibilities of cereal-breeding for Kansas, by H. F. Roberts. (Read by title.)

16. A physical examination of gypsum cement wall plasters, by G. P. Grimsley. (Read by title.)

17. On the eastern extension of the Kansas-Oklahoma Red-beds, by C. N. Gould. (Read by title.)

18. On a new plesiosaur, by S. W. Williston. (Read by title.)

19. The Ottawa gas-wells, by J. A. Yates. (Read by title, the author giving a brief abstract.)

20. The Comanche Cretaceous in Oklahoma, by C. N. Gould. (Read by title.)

21. Notes on the theories of gypsum deposits, by R. S. Sherwin. (Read by the secretary.)

22. On the disappearance of ponds and streams in central Kansas, by S. G. Mead. (Read by the secretary.)

23. On certain methods of the geometry of position, by Arnold Emch. (Read by title.)

24. The value of digestive ferments and their allies in medicine, by L. E. Sayre.

25. Further notes on the medicinal plants of Kansas, including economic values, by L. E. Sayre. (Read by title.)

The committee on place of next meeting reported, favoring Manhattan as the place for the next meeting.

On motion of B. B. Smyth, Topeka was substituted for Manhattan in the report, and the report, as amended, was adopted.

The reading of papers was resumed:

26. Origin of the names of Kansas streams, by J. R. Mead.

27. Some peculiar psychic phenomena, by H. J. Harnly. (Read by title.)

28. Tabulated list of the medicinal plants of Kansas, with their reputed therapeutic properties, by B. B. Smyth. (Read by title, with an oral abstract.)

29. Mica mining in Maine, by W. N. Logan. (Read by title.)

30. Notes on Kansas Hemiptera, by Jesse B. Norton. (Read by title.)

31. A list of the Kansas Hemiptera, by E. A. Popenoe. (Read by title.)

32. The flora of a *Phragmites* bog in Kansas, by Jesse B. Norton. (Read by title.)

33. Modern necessities in the teaching of elementary botany, by H. L. Roberts. (Read by title.)

34. Some Kansas Lygæidæ, by Jesse B. Norton. (Read by title.)

35. The relation between specific gravity and nitrogen content in the corn kernel, by J. T. Willard.

The committee on membership reported, recommending, for active membership, Edward M. Williams, Wichita; and for life membership, Erasmus Haworth, Lawrence; E. H. S. Bailey, Lawrence.

On motion, these men were elected, the secretary casting the ballot of the Academy.

On motion, the Academy adjourned, to meet at 7:30 P. M.

TUESDAY EVENING, December 31, 1901.

The Academy was called to order by past Pres. Geo. H. Failyer.

President Miller delivered the annual address, choosing for his subject, "The Growth of Science during the Nineteenth Century." At the close of the address, President Miller resumed the chair.

The following papers were then read:

36. A list of birds observed in Sedgwick county, by R. Matthews. (Read by title).

37. A pre-glacial gap on Colby creek, Shawnee county, by B. B. Smyth.

38. The economic geology of Iola and vicinity, by G. P. Grimsley.

39. The physiographic divisions of Kansas, by Geo. I. Adams. (The secretary, in the absence of the author, read an outline of the paper and distributed the outline, with maps, to all present.)

40. The Permian beds of the Big Wichita valley of Texas, by Chas. A. Sternberg.

On motion of Professor Sayre, the secretary was instructed to communicate to Geo. I. Adams the thanks of the Academy for his paper and outlines.

The committee on membership recommended, for active membership, Eugene G. Smyth, of Topeka, and for life membership, M. L. Ward, of Ottawa. On motion, they were duly elected.

The committee on necrology reported the death during the past year of Geo. H. Curtis, of McPherson, an active member, and Dr. George T. Fairchild, of Berea, Ky., an honorary member.

On motion, it was ordered that a memorial of Col. N. S. Goss be published in the next volume of the transactions.

The committee on resolutions reported the following, which was adopted:

Resolved, That the thanks of the Kansas Academy of Science are rendered to the Commercial Club of Iola, for courtesies tendered in exhibiting the wonderful industries of the city; to the school board

of Iola, for the use of the high-school building for our meetings; and for the hearty hospitality extended by the citizens in general. We have enjoyed our visit. Long may Iola prosper. May her gas-wells never fail.

The treasurer reported a balance of $89.73 on hand at the beginning of this meeting. Report referred to the executive committee.

The secretary made a verbal report.

The report of the curator and librarian was read, and placed on file.

The committee on legislation was asked for a report. The secretary, being the only member present, gave an account of the efforts of the committee to secure legislation desired by the Academy, as expressed in the resolution passed at the last annual meeting. A discussion followed relative to the proper expenditure of our appropriation.

On motion of Professor Failyer, the executive committee was directed to confer with the Executive Council of the state to determine the relation of the Academy to the curatorship of the Goss ornithological collection, as a basis for action, and to report at the next annual meeting of the Academy.

The committee on nominations reported, recommending the following for officers for the ensuing year:

President, J. T. Willard, Manhattan.

First Vice-president, Edward Bartow, Lawrence.

Second Vice-president, J. A. Yates, Ottawa.

Secretary, G. P. Grimsley, Topeka.

Treasurer, E. C. Franklin, Lawrence.

On motion, the secretary was instructed to cast the ballot of the Academy in favor of these persons, and they were duly elected.

Moved by Prof. G. H. Failyer, that, in view of the wide-spread discussion concerning the presence or absence of gold in the western Kansas shales, the Academy appoint a committee of three to investigate the subject, and to report to the Academy at the next meeting. The motion carried. The president, appointed, as such committee, Geo. H. Failyer, J. T. Lovewell, and M. L. Ward.

The minutes of the meetings of the day were then read by the secretary, and approved.

On motion, the Academy adjourned *sine die.*

D. E. LANTZ, *Secretary.*